

THE NAUTILUS.

VOL. XII.

MAY, 1898.

No. 1.

NOTES ON SOME LAND AND FRESHWATER SHELLS FROM SUMATRA,
WITH DESCRIPTIONS OF NEW SPECIES.

BY T. H. ALDRICH.

In the fall of 1890, the writer received from Marang, Sumatra, a small collection of shells made by Wm. Doherty, Esq., at that place. A partial list of same is here given, with descriptions of some new forms:—

1. *Nanina gemina* Busch.
2. *Ariophanta weyersi* Smith.
3. *Ariophanta dohertyi* Aldrich.
4. *Hemiplecta marangensis* n. sp.
5. *Sitala carinifera* Stol., var. *marangensis* n. var.
6. *Trochomorpha dohertyi* n. sp.
7. *Amphidromus palacens* Busch.
8. *Helicina parva*.
9. *Clausilia aenigmatica* Sykes.
10. *Cyclophorus eximius* Mous.
11. *Cyclophorus perdix* Brod.
12. *Crossopoma bathyraphe* Smith.
13. *Lagocheilus marangensis* n. sp.
14. *Omphalotropis (Selenomphala) dohertyi* n. sp.
15. *Diplomatina liwaensis* n. sp.
16. *Leptopoma fultoni* n. sp.
17. *Cyclotus* sp.
18. *Melania lirata* Bens.
19. *Melania artecava* Mouss.

20. *Melania javanica* v. d. B.
21. *Melania rustica* Mouss. (?)
22. *Melania perplicata* Brot.
23. *Melania sobria* Lea.
24. *Melania rudis* Lea.
25. *Melania scabra* Mull.
26. *Melania tuberculata* Mull.
27. *Melania* (*Tiara*) *setosa* Sw.
28. *Melania mitra* Meuschen.
29. *Melania winteri* V. de B.
30. *Melania scabra* Müll.
31. *Melania herklotzi* Petit.
32. *Faunus ater* L.
33. *Ampullaria ampullacea* L.
34. *Pythia scarabæus* L.
35. *Melampus fasciatus* Dh.
36. *Cerithidea cornea* A. Ad.
37. *Navicella tessellata* Lam.
38. *Batissa sphericula* Prime.

DESCRIPTIONS OF NEW SPECIES.

Nanina (*Hemiplecta*) *marangensis* n. sp. Pl. I, fig. 9, 10.

Shell thin, narrowly umbilicated, obliquely striated above, smooth below; spire obtuse; color light brown; whorls seven, body whorl carinated, outer lip sinuous, expanded.

Diam. of largest specimen 22 mm.

This shell resembles *H. accidota* Bttg. from Java, but is more acutely keeled and has no band, the substance of the shell is thinner, and when adult is larger; it also resembles *N. naninoides* Bens.

Sitala carinifera Stol. var. *marangensis* n. var. Pl. I, fig. 6.

The specimens before me differ from the description by Stolicka. It is characterized by having six whorls, base rounded, body whorl bilirate, the others with but a single raised line, moderately umbilicated. The largest specimen shows six whorls, the others but five, base is more rounded than typical forms. It also is close to *S. bilirata* W. T. Blanf., except having one whorl less, and not being so openly umbilicated.

Alt. 4 mm.

Trochomorpha doherityi n. sp. Pl. I, figs. 7, 8.

Shell thin, lenticular, whorls six to seven, body whorl acutely keeled, whorls bordered by a yellow band covering the suture, peri-

phery of body whorl also with a yellow color band, both above and on base, suture moderately impressed. Aperture oblique, acute oval, umbilicus wide and deep, base somewhat rounded.

Diameter 17 mm.

This handsome shell is similar to the well known *T. bicolor* Mts., but is larger, has a different and wider umbilicus, is flatter and differs in its coloration; the base is a uniform brown, except at periphery of body whorl.

Type in my collection, examples also in Academy of Natural Sciences of Philadelphia.

Lagocheilus marangensis n. sp. Pl. I, fig. 5.

Shell turbinate, umbilicate, whorls six, convex, epidermal lines of growth prominent at sutures, shell with a dotted band of red just below suture, and also another one on base below periphery of body whorl; aperture circular, with a very thin callus on the body whorl; lip expanded, partially reflected over the umbilicus.

Diam., maj. 8 mm., alt. 9 mm.

This species is very close to *L. ciliocinctus* Von Martens, but authentic specimens of that species do not show the dotted red band on the base. The body wall has a connecting callus, the lip is also somewhat exerted, while our species differs in both these particulars.

Omphalotropis (Selenomphala) dohertyi n. sp. Pl. I, figs. 1, 2.

Shell umbilicated; ovate conical, very finely striate; whorls 6 to 7, convex, suture deeply impressed, aperture ovate, peristome simple, color yellowish brown.

Diam. 3 mm., alt. $4\frac{1}{2}$ mm.

This species is close to *O. colombiana* Heude, but has one more whorl, and a more expanded outer lip. Dr. O. Von Mollendorf pronounces it new and of a group not heretofore known from Sumatra.

Leptopoma fultoni n. sp. Pl. I, figs. 11, 12.

Shell medium, conical, narrowly umbilicated, whorls six, the first three smooth, the others with numerous revolving lines, aperture oblique, rounded, exerted lip expanded and tinged with red within; a few specimens show a dark green band extending from the back of the inner red coloring half around the body whorl, gradually narrowing to a point. Those with this green band are invariably smaller than those without it.

Height 12 mm., max. width 13 mm.

This species resembles *L. matildae* Dohrn, and may eventually be classed as a variety of that species. The peculiar color markings constituting the chief differences. The red color within is always present. Over 60 specimens received.

Diplommatina liwaensis n. sp. Pl. I, figs. 3, 4.

Shell dextral, fusiform, thin, sculpture fine and close, covering all the whorls, color pale brown, whorls rounded, apex not acuminate, suture impressed, whorls seven, antipenult. largest, constriction in front. Aperture ovate, outer lip reflected, columellar tooth small.

Maj. diam. $1\frac{3}{4}$ mm., alt. 4 mm.

Locality: Liwa, at 4,000 ft. altitude.

Close to *D. gracilis* Beddome, but has much finer sculpture, is larger and has one more whorl.

ON A NEW SPECIES OF FUSUS FROM CALIFORNIA.

BY WM. H. DALL.

Fusus Roperi n. sp.

Shell small, rather short and wide, with a short, subacute spire and about six whorls; color ferruginous brown, faintly spirally zoned and lighter on the siphonal fasciole, pillar and throat whitish, outer lip between the white of the throat and the margin showing narrow spiral brown lines on a yellowish ground, whorls with a tendency to a white, narrow peripheral line most evident on the summits of the ribs; whorls excavated behind, somewhat rounded before the periphery, the margin at the suture strongly appressed with the whorl in front of it somewhat constricted; suture distinct, hardly undulated, the spiral thread in front of it slightly minutely imbricated; axially directed sculpture of finely wrinkled silky incremental lines and (on the last whorl) nine rounded ribs with rather wider interspaces, the ribs are obsolete near the suture, on the early whorls, and on the base; spiral sculpture of numerous flat strap-like threads with the interspaces much narrower and sharply reticulated by the incremental sculpture which rises in the interspaces nearly to the level of the tops of the threads; the nucleus (lost) is small, the first two or three whorls are more coarsely reticulate than the later ones; aperture elongated and insensibly passing into a rather wide and short canal; siphonal fasciole rather marked,